



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/822,048	04/08/2004	Robert L. Faulk JR.	200313930-1	2246
22879 7590 09/12/2007 HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400			EXAMINER HALIYUR, VENKATESH N	
			ART UNIT 2616	PAPER NUMBER
			MAIL DATE 09/12/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/822,048	Applicant(s) FAULK, ROBERT L.	
	Examiner Venkatesh Haliyur	Art Unit 2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 August 2007.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1- 25 is pending in the application.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 4,13, is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Reference to "802.1x login packets" in claims 4,13 is indefinite because it refers to a generic IEEE 802.1X protocol message and does not specify a type of message according to the IEEE 802.1X protocol in which login packets are sent, hence the limitation fails to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Appropriate correction is required to these claims.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

Art Unit: 2616

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-25 are rejected under 35 U.S.C. 102(e) as being anticipated by Droms et al [US Pat: 7,143,435].

Regarding claim 1, Droms et al in the invention of "Method and Apparatus for Registering Auto-Configured Network Addresses Based on Connection Authentication" disclosed a method of developing an access control list (**item 146 of Fig 1**), comprising: developing an enhanced access control list including data related to at least one of user names (**user groups**), DNS names, Windows domain names, and physical addresses (**col 9, lines 1-27**); converting at least one of, user names into corresponding IP and physical addresses according to data in the enhanced access control list; DNS names into corresponding IP addresses (**MAC**) according to data in the enhanced access control list (**col 12, lines 21-32**); and physical addresses into IP addresses according to data in the enhanced access control list; and developing the access control list from each of the operations of converting (**col 9, lines 14-27, col 10, lines 16-23**).

Regarding claim 2, Droms et al disclosed storing the user names and corresponding IP addresses in a mapping state database that defines current relationships among user names (**col 7, lines 24-35**), DNS names, domain names (**col 12, lines 21-32**), and physical addresses (**col 11, lines 20-28**).

Regarding claims 3,11, Droms et al disclosed that each physical address comprises a MAC address (**col 10, lines 16-23**).

Regarding claims 4,13, Droms et al disclosed that converting user names into corresponding IP and physical addresses according to data in the enhanced access control list comprises: detecting 802.1x login packets (**authentication, user ID and password**) being communicated over the network; determining a MAC address from the 802.1x login packets (**col 2, lines 17-25**); detecting server message block login packets being communicated over the network (**col 2, lines 25-37**); and determining an IP address from the server message block login packets; and developing records in the access control list using the obtained IP address for the respective user name (**col 2, lines 38-52**).

Regarding claims 5-6,13-14, Droms et al disclosed converting DNS names into corresponding IP addresses according to data in the enhanced access control list comprises: detecting packets having an unknown source IP address (**col 9, lines 14-24**); generating a DNS name query using the source IP address (**col 9, lines 24-27**); receiving a DNS name associated with the IP address responsive to the query; and developing records in the access control list using the obtained IP address for the respective DNS name and occasionally generating new DNS name queries for the source IP address and thereafter repeating the operations of receiving and developing to update the access control list (**col 12, lines 21-33**).

Regarding claims 7,15, Droms et al disclosed occasionally receiving the DNS name associated with the IP address and thereafter repeating the operation of developing to update the access control list (**col 12, lines 66-67,col 13,lines 1-9**).

Art Unit: 2616

Regarding claims 8,17, Droms et al disclosed converting physical addresses into IP addresses according to data in the enhanced access control list comprises: monitoring DHCP packets communicated over the network (**col 13,lines 10-15**); obtaining an IP address assigned to a particular physical address from the monitored DHCP packets (**col 11, lines 20-24**); and developing records in the access control list using the obtained IP address assigned to a respective physical address (**col 11, lines 25-36**).

Regarding claim 9, Droms et al disclosed a method of controlling access of a user to a network including a plurality of hosts coupled together through a network switch (**item 102 of Fig 1**), the method comprising: storing in the network switch an enhanced access control list containing data related to at least one of user names (**col 7, lines 24-35**), DNS names, Windows domain names, and physical addresses (**col 11, lines 20-28**); and generating a dynamic access control list from the enhanced access control list, the dynamic access control list containing a plurality of IP addresses that restrict access of the user to the network (**col 16, lines 21-32**).

Regarding claim 10, Droms et al disclosed generating the dynamic access control list comprises: mapping user names to IP addresses (**col 12, lines 28-31**); mapping user names to physical addresses; mapping physical addresses to IP addresses (**col 10, lines 16-30**); mapping unknown IP addresses to physical addresses; and mapping unknown IP addresses to DNS names; and applying rules set forth in the enhanced access control list relating to controlling access of a user to the

Art Unit: 2616

addresses determined by the operations of mapping to generate the access control list **(col 9, lines 9-27)**.

Regarding claims 12,16, Droms et al disclosed that the mapping user names to IP addresses comprises: detecting server message block login packets being communicated over the network **(col 12, lines 50-67)**; and determining an IP address from the server message block login packets and mapping unknown IP addresses to physical addresses comprises detecting packets having an unknown source IP address **(col 13, lines 1-18)**.

Regarding claims 18, 22, Droms et al disclosed a network switching circuit **(Figs 1-2,6, col 17, lines 5-27)**, comprising: a forwarding circuit **(item 103 of Fig 1)** operable to detect specific received packets and to provide the specific packets on a processor port **(col 7, lines 10-24)**, and further operable to receive packets on one of a plurality of ports including the processor port and to forward each received packet to a port corresponding to a destination address contained in the packet subject to access restrictions contained in a dynamic access control list **(col 9, lines 9-23)**; a memory circuit **(item 606 of Fig 6)** coupled to the forwarding circuit, the memory circuit operable to store packets and operable to store an enhanced access control list and a dynamic access control list; and a processor **(item 604 of Fig 6)** coupled to the forwarding circuit and to the memory circuit **(col 7, lines 25-35)**, the processor operable to define the specific packets detected by the forwarding circuit and operable to process the specific packets stored in the memory circuit using the enhanced access control list to generate the dynamic access control list **(col 7, lines 36-64)** and store the dynamic access

Art Unit: 2616

control list in the memory circuit, and further operable to provide the specific packets to the processor port of the forwarding circuit after processing the packets (**col 9, lines 28-67**).

Regarding claim 19, Droms et al disclosed that the processor further comprises a direct memory access controller coupled between the forwarding engine and the memory (**col 10, lines 40-57**).

Regarding claims 20,24, Droms et al disclosed the switch comprises an Ethernet switch and wherein the packets comprise Ethernet packets (**col 6, lines 41-45**).

Regarding claims 21,25, Droms et al disclosed wherein the enhanced access control list comprises user names (**col 7, lines 24-35**), DNS names (**col 12, lines 21-32**), Windows domain names, and physical addresses (**col 11, lines 20-28**).

Regarding claim 23, Droms et al disclosed at least some of the hosts comprise personal computer systems (**col 6, lines 5-10, Fig 6**).

Conclusion

6. Any inquiry concerning this communication or earlier communications should be directed to the attention to Venkatesh Haliyur whose phone number is 571-272-8616. The examiner can normally be reached on Monday-Friday from 9:00AM to 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edan Orgad can be reached @ (571)-272-7884. Any inquiry of a general

Art Unit: 2616

nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (571)-272-2600 or fax to 571-273-8300.

7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197(toll-free).

Venkatesh Haliyur

Patent Examiner

HH 07/31/07

EDAN B. ORGAD
SUPERVISORY PATENT EXAMINER

Edan Orgad 9/4/07